



IFWO

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/791,860

DATE: 08/18/2004

TIME: 09:08:21

Input Set : A:\2004-08-12 0641-0260P.ST25.txt

Output Set: N:\CRF4\08182004\J791860.raw

3 <110> APPLICANT: Bing-Ren HUANG et al.
 5 <120> TITLE OF INVENTION: REGULATOR OF APOPTOSIS AND CELL PROLIFERATION
 7 <130> FILE REFERENCE: 0641-0260P
 9 <140> CURRENT APPLICATION NUMBER: US 10/791,860
 10 <141> CURRENT FILING DATE: 2004-03-04
 12 <160> NUMBER OF SEQ ID NOS: 20
 14 <170> SOFTWARE: PatentIn version 3.2
 16 <210> SEQ ID NO: 1
 17 <211> LENGTH: 197
 18 <212> TYPE: DNA
 19 <213> ORGANISM: Rattus norvegicus
 21 <400> SEQUENCE: 1

22	gggacaaaac tttataacta caagcactta agcctcaaaa ttcttgactt tttctttaat	60
24	gactatagta taaccctcag ttggtcacat gtctacacat tatttccagt tgataacaag	120
26	tagcgggtgtt ttccatatgt aattcagatc tgaacttaat ggcaataaat ggtttaaata	180
28	tttgcgaaaa aaaaaaa	197

31 <210> SEQ ID NO: 2
 32 <211> LENGTH: 167
 33 <212> TYPE: DNA
 34 <213> ORGANISM: Rattus norvegicus
 36 <400> SEQUENCE: 2

37	cagggtcacgg aagccagtcg tgccggagac accggcttct gggaagccgc ccagggtctca	60
39	ttcctccctg ctgtttggag gcagcatctc ctctttttat ggagggcccg tccttttttc	120
41	ttacaaattc ttcaataaag acacattctt gaggcgaaaa aaaaaaa	167

44 <210> SEQ ID NO: 3
 45 <211> LENGTH: 901
 46 <212> TYPE: DNA
 47 <213> ORGANISM: Rattus norvegicus
 49 <400> SEQUENCE: 3

50	gctggccggg tcgaccctgg tgtcatccgt ttaggaagcg gcttcaccgc caacagcacg	60
52	gccatggctg gagctctggt gcgcaaagca gcggactatg tccggagcaa ggacttccgg	120
54	gactatctca tgagtacgca cttctggggc ccagttgccg actggggtct cccatttgc	180
56	gctatcaatg acatgaagaa atctccagag attatcagtg ggccgatgac tttcgccctc	240
58	tggttgctatt ctctgacatt catgagattt gcctacaagg tacaaccccg aaactggctt	300
60	ctgtttgcgt gccatgtgac aaacgaagtc gctcagctca ttcagggagg acgacttatc	360
62	aactacgaga tgagtaagcg gccatctgcc tagcagtgcg aggaccagct cttgaaaggg	420
64	acagtgtctc agccactgtt gcggccacag atcacgtcag catgaatagt cgtgctgagg	480
66	ggaaaacacg gaagactatc tttaatgacc atgccaacat tattgaatag ccaagaatcc	540
68	ccaaaccaac tctcggtgc cttatcaatg cttaaacttta tttgtcttca tcaggagtag	600
70	ttcaaaatat gcagctaatt taataatttt gaatgatgtt atctatagca atctgtagta	660
72	atatgtatat tatctattgg gattttgtgta ataaaaaatc taagggaaca aaactttata	720
74	actacaagca cttaagtcct caaaattctt gactttttct ttaatgacta tagtataacc	780
76	ctcagttggt cacatgtcta cacataattt ccagtgataa caagtagcgg tgttttccat	840

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/791,860

DATE: 08/18/2004

TIME: 09:08:21

Input Set : A:\2004-08-12 0641-0260P.ST25.txt

Output Set: N:\CRF4\08182004\J791860.raw

```

78 atgtaattca gatctgaact taatggcaat aaatgggttta aatatttgcg aaaaaaaaaa 900
80 a 901
83 <210> SEQ ID NO: 4
84 <211> LENGTH: 109
85 <212> TYPE: PRT
86 <213> ORGANISM: Rattus norvegicus
88 <400> SEQUENCE: 4
90 Met Ala Gly Ala Leu Val Arg Lys Ala Ala Asp Tyr Val Arg Ser Lys
91 1 5 10 15
94 Asp Phe Arg Asp Tyr Leu Met Ser Thr His Phe Trp Gly Pro Val Ala
95 20 25 30
98 Asn Trp Gly Leu Pro Ile Ala Ala Ile Asn Asp Met Lys Lys Ser Pro
99 35 40 45
102 Glu Ile Ile Ser Gly Arg Met Thr Phe Ala Leu Cys Cys Tyr Ser Leu
103 50 55 60
106 Thr Phe Met Arg Phe Ala Tyr Lys Val Gln Pro Arg Asn Trp Leu Leu
107 65 70 75 80
110 Phe Ala Cys His Val Thr Asn Glu Val Ala Gln Leu Ile Gln Gly Gly
111 85 90 95
114 Arg Leu Ile Asn Tyr Glu Met Ser Lys Arg Pro Ser Ala
115 100 105
118 <210> SEQ ID NO: 5
119 <211> LENGTH: 109
120 <212> TYPE: PRT
121 <213> ORGANISM: Mus musculus
123 <400> SEQUENCE: 5
125 Met Ala Gly Ala Leu Val Arg Lys Ala Ala Asp Tyr Val Arg Ser Lys
126 1 5 10 15
129 Asp Phe Arg Asp Tyr Leu Met Ser Thr His Phe Trp Gly Pro Val Ala
130 20 25 30
133 Asn Trp Gly Leu Pro Ile Ala Ala Ile Asn Asp Met Lys Lys Ser Pro
134 35 40 45
137 Glu Ile Ile Ser Gly Arg Met Thr Phe Ala Leu Cys Cys Tyr Ser Gln
138 50 55 60
141 Thr Phe Met Arg Phe Ala Tyr Lys Val Gln Pro Arg Asn Trp Leu Leu
142 65 70 75 80
145 Phe Ala Cys His Val Thr Asn Glu Val Ala Gln Leu Ile Gln Gly Gly
146 85 90 95
149 Arg Leu Ile Asn Tyr Glu Met Ser Lys Arg Pro Ser Ala
150 100 105
153 <210> SEQ ID NO: 6
154 <211> LENGTH: 102
155 <212> TYPE: PRT
156 <213> ORGANISM: Homo sapiens
158 <400> SEQUENCE: 6
160 Met Ala Gly Ala Leu Val Arg Lys Ala Ala Asp Tyr Val Arg Ser Lys
161 1 5 10 15
164 Asp Phe Arg Asp Tyr Leu Met Ser Thr His Phe Trp Gly Pro Val Ala
165 20 25 30

```

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/791,860

DATE: 08/18/2004

TIME: 09:08:21

Input Set : A:\2004-08-12 0641-0260P.ST25.txt

Output Set: N:\CRF4\08182004\J791860.raw

```

168 Asn Trp Gly Leu Pro Ile Ala Ala Ile Asn Asp Met Lys Lys Ser Pro
169          35          40          45
172 Glu Ile Ile Ser Gly Arg Met Thr Phe Ala Leu Cys Cys Tyr Ser Leu
173          50          55          60
176 Thr Phe Met Arg Phe Ala Tyr Lys Val Gln Pro Arg Asn Trp Leu Leu
177 65          70          75          80
180 Phe Ala Cys His Ala Thr Asn Glu Val Ala Gln Leu Ile Gln Gly Gly
181          85          90          95
184 Arg Leu Ile Lys His Glu
185          100
188 <210> SEQ ID NO: 7
189 <211> LENGTH: 988
190 <212> TYPE: DNA
191 <213> ORGANISM: Homo sapiens
193 <400> SEQUENCE: 7
194 gtcgtgagggc gggccttcgg gctggctcgc cgtcggctgc cgggggggttg gcctgggtgt      60
196 cattggctct ggggaagcggc agcagaggca gggaccactc ggggtctggt gtcggcacag      120
198 ccattggcggg cgcgttggtg cggaaagcgg cggactatgt ccgaagcaag gatttcgggg      180
200 actacctcat gagtacgcac ttctggggcc cagtagccaa ctgggggtctt cccattgctg      240
202 ccatcaatga tatgaaaaag tctccagaga ttatcagtgg gcggatgaca ttgcccctct      300
204 gttgctatctc ttgacattc atgagatttg cctacaaggt acagcctcgg aactggcttc      360
206 tgtttgcatg ccacgcaaca aatgaagtag ccagctcat ccaggagggg cggcttatca      420
208 aacacgagat gactaaaacg gcattctgcat aacaatggga aaaggaagaa caaggtcttg      480
210 aaggacagc attgccagct gctgctgagt cacagatttc attataaata gcctccctaa      540
212 ggaaaataca ctgaatgcta tttttactaa ccattctatt tttatagaaa tagctgagag      600
214 tttctaaacc aactctctgc tgccttaca gtattaaata ttttacttct ttccataaag      660
216 agtagctcaa aatatgcaat taatttaata atttctgatg atgttttatc tgcagtaata      720
218 tgtatatcat ctattagaat ttacttaatg aaaaactgaa gagaacaaaa tttgtaacca      780
220 ctagcactta agtactcctg attcttaaca ttgtctttaa tgaccacaag acaaccaaca      840
222 gctggccacg tacttaaaat tttgtcccca ctgtttaaaa atgttacctg tgtatttcca      900
224 tgcagtgtat atattgagat gctgtaactt aatggcaata aatgatttaa atatttgtaa      960
226 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa
229 <210> SEQ ID NO: 8
230 <211> LENGTH: 873
231 <212> TYPE: DNA
232 <213> ORGANISM: Mus musculus
234 <400> SEQUENCE: 8
235 ggtgtcatct gtctaggtag cggcttcacc gccaacggca cggccatggc tggagcgtg      60
237 gtgcgcaaag cggcggacta tgtccggagc aaggacttcc gggactatct catgagtacg      120
239 cacttctggg gccagttgc caactggggt ctccccattg ctgctatcaa tgacatgaag      180
241 aaatctccag agattatcag tgggcggtg actttcgccc tctgttgcta ttctctgaca      240
243 ttcatgagat ttgcctacaa ggtacaacct cgaaactggc ttttgtttgc atgccatgta      300
245 acaaacgaag tagctcagct cattcagga ggacgactta tcaactacga gatgagtaag      360
247 cggccatctg catagcggta caaggaccag ctcttgaaag agacagtgtc ccagccactg      420
249 ctgcagccac agatcatgtc agcatgagta gtcgtgtga agggaaaaca cagaatgcta      480
251 tcttaatgac catgccaca ttattgaata gccgagagtc cctaaaccca ctctctgctg      540
253 ccttatcaat gctaaacctt atttgtcttc atcaagagta gttcaaaata tgcaactaat      600
255 ttaataattht tgaatgatgg ttttatctat agcaatctgt agtaatatgt atattatcta      660
257 ttgggatttg tgtaataaaa aatctaaggg aacaaaattt tataactaca agcacttaag      720

```

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/791,860

DATE: 08/18/2004

TIME: 09:08:21

Input Set : A:\2004-08-12 0641-0260P.ST25.txt

Output Set: N:\CRF4\08182004\J791860.raw

```

259 tactcaaaat tcttgacttt ttctttaatg acaatagtaa accctcagtt ggtcacatgt      780
261 ctacacataa tttccagtga taacaagtat cgggtgttttc catatgtaac tcagatctgt      840
263 aacttaatgg caataaatgg tttaaattatt tgc                                     873
266 <210> SEQ ID NO: 9
267 <211> LENGTH: 549
268 <212> TYPE: DNA
269 <213> ORGANISM: Mus musculus
271 <400> SEQUENCE: 9
272 cggcacagcc atggcgggcg cgttggtgcg gaaagcggcg gactatgtcc gaagcaagga      60
274 tttccgggac tacctcatga gtacgcactt ctggggccca gtagccaact ggggtcttcc      120
276 cattgctgcc atcaatgata tgaaaaagtc tccagagatt atcagtgggc ggatgacatt      180
278 tgccctctgt tgcattctt tgacattcat gagatttgcc tacaaggtag agcctcggaa      240
280 ctggcttctg tttgcatgcc acgcaacaaa tgaagtagcc cagctcatcc agggagggcg      300
282 gcttatcaaa cagcagatga ctgtaactta atggcaataa atgatttaaa tatttgaaga      360
284 gtagctcaaa atatgcaatt aatttaataa tttatctgca gtaatatgta tatcatctat      420
286 tagaatttac ttaatgaaaa actgaagaga acaaaatttg taaccactag cacttaagta      480
288 ctctgattc ttaacattgt cttaaatgac aatagctgag agtttctaaa ccaactctct      540
290 gctgcctta                                     549
293 <210> SEQ ID NO: 10
294 <211> LENGTH: 10
295 <212> TYPE: DNA
296 <213> ORGANISM: Artificial Sequence
298 <220> FEATURE:
299 <223> OTHER INFORMATION: 5' random arbitrary primer
301 <400> SEQUENCE: 10
302 caagcgaggt                                     10
305 <210> SEQ ID NO: 11
306 <211> LENGTH: 10
307 <212> TYPE: DNA
308 <213> ORGANISM: Artificial Sequence
310 <220> FEATURE:
311 <223> OTHER INFORMATION: 5' random arbitrary primer
313 <400> SEQUENCE: 11
314 cagtgaactg                                     10
317 <210> SEQ ID NO: 12
318 <211> LENGTH: 10
319 <212> TYPE: DNA
320 <213> ORGANISM: Artificial Sequence
322 <220> FEATURE:
323 <223> OTHER INFORMATION: 5' random arbitrary primer
325 <400> SEQUENCE: 12
326 gtcacggaag                                     10
329 <210> SEQ ID NO: 13
330 <211> LENGTH: 27
331 <212> TYPE: DNA
332 <213> ORGANISM: Artificial Sequence
334 <220> FEATURE:
335 <223> OTHER INFORMATION: PCR primer AP1
337 <400> SEQUENCE: 13

```

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/791,860

DATE: 08/18/2004

TIME: 09:08:21

Input Set : A:\2004-08-12 0641-0260P.ST25.txt

Output Set: N:\CRF4\08182004\J791860.raw

```

338 ccatacctaatacgcactcact atagggc
341 <210> SEQ ID NO: 14
342 <211> LENGTH: 24
343 <212> TYPE: DNA
344 <213> ORGANISM: Artificial Sequence
346 <220> FEATURE:
347 <223> OTHER INFORMATION: PCR primer corresponding to SEQ ID NO: 1
349 <400> SEQUENCE: 14
350 agccgagagat tggtttggggg attc
353 <210> SEQ ID NO: 15
354 <211> LENGTH: 22
355 <212> TYPE: DNA
356 <213> ORGANISM: Artificial Sequence
358 <220> FEATURE:
359 <223> OTHER INFORMATION: Primer I (ARBP cDNA 5' primer)
361 <400> SEQUENCE: 15
362 gggatccaac agcacggcca tg
365 <210> SEQ ID NO: 16
366 <211> LENGTH: 26
367 <212> TYPE: DNA
368 <213> ORGANISM: Artificial Sequence
370 <220> FEATURE:
371 <223> OTHER INFORMATION: primer II (ARBP cDNA 3' primer )
373 <400> SEQUENCE: 16
374 ggaattcatt gataaggcag ccgaga
377 <210> SEQ ID NO: 17
378 <211> LENGTH: 20
379 <212> TYPE: DNA
380 <213> ORGANISM: Artificial Sequence
382 <220> FEATURE:
383 <223> OTHER INFORMATION: GAPDH sense primer
385 <400> SEQUENCE: 17
386 tgctggtgct gagtatgtcg
389 <210> SEQ ID NO: 18
390 <211> LENGTH: 20
391 <212> TYPE: DNA
392 <213> ORGANISM: Artificial Sequence
394 <220> FEATURE:
395 <223> OTHER INFORMATION: GAPDH anti-sense primer
397 <400> SEQUENCE: 18
398 gcatgtcaga tccacaacgg
401 <210> SEQ ID NO: 19
402 <211> LENGTH: 14
403 <212> TYPE: PRT
404 <213> ORGANISM: Artificial Sequence
406 <220> FEATURE:
407 <223> OTHER INFORMATION: polyclonal antibody against a C-terminal peptide sequence of
ARBP
409 <400> SEQUENCE: 19
411 Gly Arg Leu Ile Asn Tyr Glu Met Ser Lys Arg Pro Ser Ala

```

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/791,860

DATE: 08/18/2004

TIME: 09:08:22

Input Set : A:\2004-08-12 0641-0260P.ST25.txt

Output Set: N:\CRF4\08182004\J791860.raw